

Claims:

1. A cutting head of an eccentric cutting machine having a drive shaft (7) mounted rotatably relative to a machine frame (14), on which drive shaft (7) a rotor (13) is arranged, in which a blade (1), which is arranged eccentrically relative to the drive shaft (7) and has a cutting plane (15), is rotatably mounted, characterised in that the bearing arrangement (3) of the blade is arranged in the area of the cutting plane (15).

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2. A cutting head of an eccentric cutting machine, preferably according to claim 1, having a drive shaft (7) mounted rotatably relative to a machine frame (14), on which drive shaft (7) a rotor (13) is arranged, in which a blade (1), arranged eccentrically relative to the drive shaft (7), is rotatably mounted, characterised in that the bearing arrangement (3) of the blade is arranged in the area of the axial centre of gravity (22) of the blade (1).

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3. A cutting head of an eccentric cutting machine, preferably according to one of the preceding claims, having a drive shaft (7) mounted rotatably relative to a machine frame (14), on which drive shaft (7) a rotor (13) with a housing (9) is arranged, in which a blade (1), arranged eccentrically relative to the drive shaft (7), is rotatably mounted, characterised in that the bearing arrangement (3) of the blade is arranged at least partially outside the housing (9).

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4. A cutting head of an eccentric cutting machine, preferably according to claim 1 or claim 2, having a drive shaft (7) mounted rotatably relative to a machine frame (14), on which drive shaft (7) a rotor (13) is arranged, in which a blade (1), arranged eccentrically relative to the drive shaft (7), is rotatably mounted, characterised in that the blade (1) is connected to a hub/shaft (2), whose bearing arrangement (3) is arranged inside the hub/shaft (2).
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5. A cutting head of an eccentric cutting machine, preferably according to any one of the preceding claims, having a drive shaft (7) mounted rotatably relative to a machine frame (14), on which drive shaft (7) a rotor (13) with a housing (9) is arranged, in which a blade (1), arranged eccentrically relative to the drive shaft (7), is rotatably mounted, characterised in that the bearing arrangement (3) of the blade (1) is arranged on a spindle (4) connected non-rotatably with the housing (9) of the rotor (13).
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6. A cutting head according to claim 5, characterised in that the spindle (4) is a hollow spindle.
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7. A cutting head according to any one of claims 1 - 4, characterised in that the blade comprises a hub (2), which is mounted on a spindle (4) by means of the bearing arrangement (3).
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8. A cutting head according to any one of the preceding claims, characterised in that the spindle (4) projects out of the housing (9).

9. A cutting head according to any one of the preceding claims, characterised in that the hub (2) at least partially encloses the bearing arrangement (3).
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10. A cutting head according to any one of the preceding claims, characterised in that a seal (20) is arranged between hub (2) and rotor (13).
- 10 11. A cutting head according to any one of the preceding claims, characterised in that the hub (2) is driven by at least one drive means (5, 6, 10, 18, 19).
12. A cutting head according to claim 11, characterised in
15 that the hub (2) is driven by a shaft (5).
13. A cutting head according to any one of the preceding claims, characterised in that the rotor (13), the shaft (7) and/or the bearing arrangement (8) thereof
20 is(are) at least in part temperature-controlled, preferably cooled.
14. A cutting head according to claim 13, characterised in that the spindle (4) and/or the bearing arrangement
25 (3) is(are) temperature-controlled, preferably cooled.
15. A cutting head according to one of claims 13 or 14, characterised in that temperature control, preferably water-cooling, is particularly preferably effected
30 with a water circuit (11, 12).

16. A cutting head according to any one of the preceding claims, characterised in that it is inclined relative to vertical.
- 5 17. A slicing machine comprising a cutting head according to any one of claims 1 - 16.